

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085473 A2

(51) International Patent Classification⁷: C12Q 1/68

(21) International Application Number:
PCT/US2005/006559

(22) International Filing Date: 1 March 2005 (01.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/549,069 1 March 2004 (01.03.2004) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/549,069 (CON)
Filed on 1 March 2004 (01.03.2004)

(71) Applicant (for all designated States except US): **UNIVERSITY OF CHICAGO** [US/US]; 5555 South Woodlawn Avenue, Suite 300, Chicago, IL 60637 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RATAIN, Mark, J.** [US/US]; 1040 West Oakdale Avenue, Chicago, IL 60657 (US). **LIU, Wanqing** [CN/US]. **INNOCENTI, Federico** [IT/US]; 5020 S. Lake Shore Drive, 611N, Chicago, IL 60615 (US).

(74) Agent: **SHISHIMA, Gina, N.**; Fulbright & Jaworski, L.L.P., 600 Congress Avenue, Suite 2400, Austin, TX 78701 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: POLYMORPHISMS IN THE EPIDERMAL GROWTH FACTOR RECEPTOR GENE PROMOTER

(57) Abstract: The present invention concerns polymorphisms in the epidermal growth factor receptor (EGFR), gene. In some embodiments, the present invention is directed at compositions and methods involving single nucleotide polymorphisms (SNPs) in the promoter of the EGFR gene that affect EGFR expression. The identification of polymorphisms associated with EGFR expression or activity enables novel methods and compositions for evaluating the potential efficacy and toxicity of an EGFR-targeting therapeutic agent, predicting a patient's clinical prognosis, and evaluating a patient's risk of developing a disease that is associated with EGFR dysregulation.



WO 2005/085473 A2